

INCH POUND

MIL-PRF-14409/14J
25 July 2001
SUPERSEDING
MIL-PRF-14409/14H
5 June 1992

PERFORMANCE SPECIFICATION SHEET

CAPACITORS, VARIABLE (PISTON TYPE, TUBULAR TRIMMER), STYLES PC27, PC28, PC29

This specification sheet is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the capacitors described herein shall consist
of this document and the latest issue of specification MIL-PRF-14409.

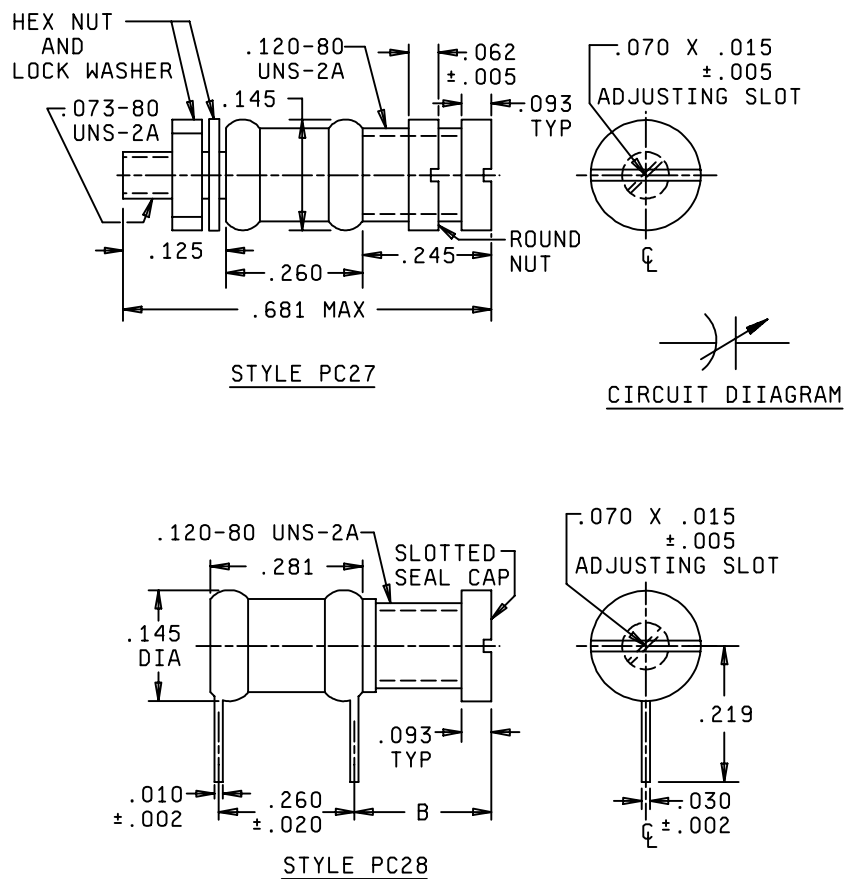
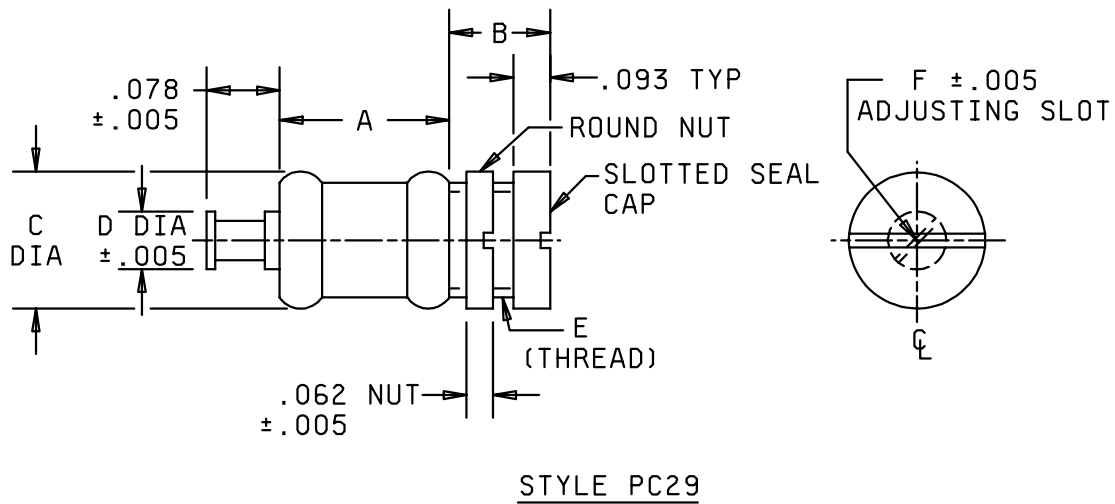


FIGURE 1. Dimensions and configuration.



Inches	mm	Inches	mm
.002	0.05	.093	2.36
.005	0.13	.120	3.05
.010	0.25	.125	3.18
.015	0.38	.145	3.68
.020	0.51	.219	5.56
.030	0.76	.245	6.22
.062	1.57	.260	6.63
.070	1.78	.281	7.14
.073	1.85	.681	17.30
.078	1.98		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .016$ inch (0.41 mm).

FIGURE 1. Dimensions and configurations - Continued.

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TABLE I. Type designation and characteristics.

Type designation	Capacitance range		Q Min	Dimensions ^{1/}					
	Min	Max		A	B ± .020 (.51)	C	D	E	F
	<u>pF</u>	<u>pF</u>							
PC27J3R5	0.35	3.5	10,000						
PC28J3R5	0.35	3.5	10,000		.245 (6.22)				
PC28J050	0.5	5.0	7,500		.281 (7.14)				
PC29J3R5	0.35	3.5	10,000	.266 (6.76)	.250 (6.35)	.145 (3.68)	.047 (1.19)	.120-80 UNS-2A	.070 x .015 (1.78) (.38)
PC29J050	0.5	5.0	7,500	.266 (6.76)	.281 (7.14)	.145 (3.68)	.047 (1.19)	.120-80 UNS-2A	.070 x .015 (1.78) (.38)
PC29J100	0.8	10.0	7,500	.281 (7.14)	.249 (6.32)	.220 (5.59)	.062 (1.57)	.190-64 UNS-2A	.093 Min x .020 (2.36) (.51)

^{1/} Metric equivalents are shown in parentheses for general information only and are based upon 1.00 inch = 25.4 mm.

REQUIREMENTS:

Dimensions and configuration: See figure 1 and table I.

DC voltage rating: 250 volts.

Construction: Alumina ceramic.

Dielectric: Air.

Capacitance range: See table I.

Insulation resistance: Not less than 10^6 megohms at room ambient temperature and not less than 10^5 megohms at 125°C.

Test condition - 250 volts ±10 percent.

Quality factor (Q): See table I (measured at frequency of 100 MHz).

Driving torque: Greater than or equal to 0.3 and less than or equal to 4.0 ounce-inches from -55°C through +125°C.

Thermal shock: Method 107 of MIL-STD-202, test condition A, except step 3 temperature shall be 125° ±5°C.

Immersion: Method 104 of MIL-STD-202, test condition A.

Resistance to soldering heat: Applicable to style PC28 and PC29 only.

Seal: Applicable, with seal cap on.

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Custodians:

Army - CR
Navy - EC
Air Force - 11

Preparing activity:

DLA - CC

Review activities:

Navy - AS, MC, OS

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